RAW SEQUENCE LISTING

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Application Serial Number: 09/613,170

Source: /FW16

Date Processed by STIC: 5/9/05

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IFW16

RAW SEQUENCE LISTING　　　　　　　　DATE: 05/09/2005
PATENT APPLICATION:　US/09/613,170　　　TIME: 16:20:18

Input Set : **N:\Crf3\RULE60\09613170.raw**
Output Set: **N:\CRF4\05092005\I613170.raw**

SEQUENCE LISTING

```
 3 (1) GENERAL INFORMATION:
 5      (i) APPLICANT: Ueda, Tetsufumi
 6                     Ozkan, Eric D.
 8     (ii) TITLE OF INVENTION: Compositions And Methods For The
 9                             Inhibition Of Neurotransmitter Uptake Of Synaptic
Vesicles
11    (iii) NUMBER OF SEQUENCES: 6
13     (iv) CORRESPONDENCE ADDRESS:
14          (A) ADDRESSEE: Medlen & Carroll, LLP
15          (B) STREET: 220 Montgomery Street, Suite 2200
16          (C) CITY: San Francisco
17          (D) STATE: California
18          (E) COUNTRY: United States of America
19          (F) ZIP: 94104
21      (v) COMPUTER READABLE FORM:
22          (A) MEDIUM TYPE: Floppy disk
23          (B) COMPUTER: IBM PC compatible
24          (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25          (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27     (vi) CURRENT APPLICATION DATA:
C--> 28          (A) APPLICATION NUMBER: US/09/613,170
C--> 29          (B) FILING DATE: 10-Jul-2000
30          (C) CLASSIFICATION: 514
32    (vii) PRIOR APPLICATION DATA:
33          (A) APPLICATION NUMBER: US/08/840,006
34          (B) FILING DATE: 15-APR-1997
36   (viii) ATTORNEY/AGENT INFORMATION:
37          (A) NAME: Carroll, Peter G.
38          (B) REGISTRATION NUMBER: 32,837
39          (C) REFERENCE/DOCKET NUMBER: UM-02786
41     (ix) TELECOMMUNICATION INFORMATION:
42          (A) TELEPHONE: (415) 705-8410
43          (B) TELEFAX: (415) 397-8338
46 (2) INFORMATION FOR SEQ ID NO: 1:
48      (i) SEQUENCE CHARACTERISTICS:
49          (A) LENGTH: 10 amino acids
50          (B) TYPE: amino acid
51          (C) STRANDEDNESS: Not Relevant
52          (D) TOPOLOGY: linear
54     (ii) MOLECULE TYPE: peptide
59     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
61      Glu Ala Ala Leu Thr Ser Glu Glu Val Gly
62      1                   5                   10
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64  (2)  INFORMATION FOR SEQ ID NO: 2:
66       (i)  SEQUENCE CHARACTERISTICS:
67            (A) LENGTH: 5 amino acids
68            (B) TYPE: amino acid
69            (C) STRANDEDNESS: Not Relevant
70            (D) TOPOLOGY: linear
72       (ii) MOLECULE TYPE: peptide
77       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
79       Tyr His Arg Phe Lys
80       1               5
82  (2)  INFORMATION FOR SEQ ID NO: 3:
84       (i)  SEQUENCE CHARACTERISTICS:
85            (A) LENGTH: 10 amino acids
86            (B) TYPE: amino acid
87            (C) STRANDEDNESS: Not Relevant
88            (D) TOPOLOGY: linear
90       (ii) MOLECULE TYPE: peptide
95       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
97       Tyr His Arg Phe Lys Glu Leu Ser Thr Leu
98       1               5                   10
100 (2)  INFORMATION FOR SEQ ID NO: 4:
102      (i)  SEQUENCE CHARACTERISTICS:
103           (A) LENGTH: 20 amino acids
104           (B) TYPE: amino acid
105           (C) STRANDEDNESS: Not Relevant
106           (D) TOPOLOGY: linear
108      (ii) MOLECULE TYPE: peptide
113      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
115      Tyr His Arg Phe Lys Glu Leu Ser Thr Leu Arg Arg Gln Lys Leu Glu
116      1               5                   10                  15
118      Asp Ser Tyr Arg
119                  20
121 (2)  INFORMATION FOR SEQ ID NO: 5:
123      (i)  SEQUENCE CHARACTERISTICS:
124           (A) LENGTH: 1200 amino acids
125           (B) TYPE: amino acid
126           (C) STRANDEDNESS: Not Relevant
127           (D) TOPOLOGY: linear
129      (ii) MOLECULE TYPE: peptide
134      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
136      Met Asp Pro Ser Gly Val Lys Val Leu Glu Thr Ala Glu Asp Ile Gln
137      1               5                   10                  15
139      Glu Arg Arg Gln Gln Val Leu Asp Arg Tyr His Arg Phe Lys Glu Leu
140                  20                  25                  30
142      Ser Thr Leu Arg Arg Gln Lys Leu Glu Asp Ser Tyr Arg Phe Gln Phe
143              35                  40                  45
145      Phe Gln Arg Asp Ala Glu Glu Leu Glu Lys Trp Ile Gln Glu Lys Leu
146          50                  55                  60
148      Gln Ile Ala Ser Asp Glu Asn Tyr Lys Asp Pro Thr Asn Leu Gln Gly
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149   65                    70                   75                    80
151   Lys Leu Gln Lys His Gln Ala Phe Glu Ala Glu Val Gln Ala Asn Ser
152                 85                   90                   95
154   Gly Ala Ile Val Lys Leu Asp Glu Thr Gly Asn Leu Met Ile Ser Glu
155               100                  105                  110
157   Gly His Phe Ala Ser Glu Thr Ile Arg Thr Arg Leu Met Glu Leu His
158               115                  120                  125
160   Arg Gln Trp Glu Leu Leu Leu Glu Lys Met Arg Glu Lys Gly Ile Lys
161         130                  135                  140
163   Leu Leu Gln Ala Gln Asn Leu Val Gln Tyr Leu Arg Glu Cys Glu Asp
164   145                  150                  155                  160
166   Val Met Asp Trp Ile Asn Asp Lys Glu Ala Ile Val Thr Ser Glu Glu
167               165                  170                  175
169   Leu Gly Gln Asp Leu Glu His Val Glu Val Leu Gln Lys Lys Phe Glu
170               180                  185                  190
172   Glu Phe Gln Thr Asp Met Ala Ala His Glu Glu Arg Val Asn Glu Val
173         195                  200                  205
175   Asn Gln Phe Ala Ala Lys Leu Ile Gln Glu Gln His Pro Glu Glu Glu
176         210                  215                  220
178   Leu Ile Lys Thr Lys Gln Asp Glu Val Asn Ala Ala Trp Gln Arg Leu
179   225                  230                  235                  240
181   Lys Gly Leu Ala Leu Gln Arg Gln Gly Lys Leu Phe Gly Ala Ala Glu
182               245                  250                  255
184   Val Gln Arg Phe Asn Arg Asp Val Asp Glu Thr Ile Ser Trp Ile Lys
185               260                  265                  270
187   Glu Lys Glu Gln Leu Met Ala Ser Asp Asp Phe Gly Arg Asp Leu Ala
188         275                  280                  285
190   Ser Val Gln Ala Leu Leu Arg Lys His Glu Gly Leu Glu Arg Asp Leu
191         290                  295                  300
193   Ala Ala Leu Glu Asp Lys Val Lys Ala Leu Cys Ala Glu Ala Asp Arg
194   305                  310                  315                  320
196   Leu Gln Gln Ser His Pro Leu Ser Ala Thr Gln Ile Gln Val Lys Arg
197               325                  330                  335
199   Glu Glu Leu Ile Thr Asn Trp Glu Gln Ile Arg Thr Leu Ala Ala Glu
200               340                  345                  350
202   Arg His Ala Arg Leu Asn Asp Ser Tyr Arg Leu Gln Arg Phe Leu Ala
203         355                  360                  365
205   Asp Phe Arg Asp Leu Thr Ser Trp Val Thr Glu Met Lys Ala Leu Ile
206         370                  375                  380
208   Asn Ala Asp Glu Leu Ala Ser Asp Val Ala Gly Ala Glu Ala Leu Leu
209   385                  390                  395                  400
211   Asp Arg His Gln Glu His Lys Gly Glu Ile Asp Ala His Glu Asp Ser
212               405                  410                  415
214   Phe Lys Ser Ala Asp Glu Ser Gly Gln Ala Leu Leu Ala Ala Gly His
215               420                  425                  430
217   Tyr Ala Ser Asp Glu Val Arg Glu Lys Leu Thr Val Leu Ser Glu Glu
218         435                  440                  445
220   Arg Ala Ala Leu Leu Glu Leu Trp Glu Leu Arg Arg Gln Gln Tyr Glu
221         450                  455                  460
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223    Gln Cys Met Asp Leu Gln Leu Phe Tyr Arg Asp Thr Glu Gln Val Asp
224    465                 470                 475                 480
226    Asn Trp Met Ser Lys Gln Glu Ala Phe Leu Leu Asn Glu Asp Leu Gly
227                    485                 490                 495
229    Asp Phe Leu Asp Ser Val Glu Ala Leu Leu Lys Lys His Glu Asp Phe
230                500                 505                 510
232    Glu Lys Ser Leu Ser Ala Gln Glu Glu Lys Ile Thr Ala Leu Asp Glu
233            515                 520                 525
235    Phe Ala Thr Lys Leu Ile Gln Asn Asn His Tyr Ala Met Glu Asp Val
236            530                 535                 540
238    Ala Thr Arg Arg Asp Ala Leu Leu Ser Arg Arg Asn Ala Leu His Glu
239    545                 550                 555                 560
241    Arg Ala Met Arg Arg Arg Ala Gln Leu Ala Asp Ser Phe His Leu Gln
242                565                 570                 575
244    Gln Phe Phe Arg Asp Ser Asp Glu Leu Lys Ser Trp Val Asn Glu Lys
245                580                 585                 590
247    Met Lys Thr Ala Thr Asp Glu Ala Tyr Lys Asp Pro Ser Asn Leu Gln
248            595                 600                 605
250    Gly Lys Val Gln Lys His Gln Ala Phe Glu Ala Glu Leu Ser Ala Asn
251            610                 615                 620
253    Gln Ser Arg Ile Asp Ala Leu Glu Lys Ala Gly Gln Lys Leu Ile Asp
254    625                 630                 635                 640
256    Val Asn His Tyr Ala Lys Asp Glu Val Ala Ala Arg Met Asn Glu Val
257                645                 650                 655
259    Ile Ser Leu Trp Lys Lys Leu Leu Glu Ala Thr Glu Leu Lys Gly Ile
260                660                 665                 670
262    Lys Leu Arg Glu Ala Asn Gln Gln Gln Gln Phe Asn Arg Asn Val Glu
263            675                 680                 685
265    Asp Ile Glu Leu Trp Leu Tyr Glu Val Glu Gly His Leu Ala Ser Asp
266            690                 695                 700
268    Asp Tyr Gly Lys Asp Leu Thr Asn Val Gln Asn Leu Gln Lys Lys His
269    705                 710                 715                 720
271    Ala Leu Leu Glu Ala Asp Val Ala Ala His Gln Asp Arg Ile Asp Gly
272                725                 730                 735
274    Val Thr Ile Gln Ala Arg Gln Phe Gln Asp Ala Gly His Phe Asp Ala
275                740                 745                 750
277    Glu Asn Ile Lys Lys Lys Gln Glu Ala Leu Val Ala Arg Tyr Glu Ala
278            755                 760                 765
280    Leu Lys Glu Pro Met Val Ala Arg Lys Gln Lys Leu Ala Asp Ser Leu
281            770                 775                 780
283    Arg Leu Gln Gln Leu Phe Arg Asp Val Glu Asp Glu Glu Thr Trp Ile
284    785                 790                 795                 800
286    Arg Glu Lys Glu Pro Ile Ala Ala Ser Thr Asn Arg Gly Lys Asp Leu
287                805                 810                 815
289    Ile Gly Val Gln Asn Leu Leu Lys Lys His Gln Ala Leu Gln Ala Glu
290            820                 825                 830
292    Ile Ala Gly His Glu Pro Arg Ile Lys Ala Val Thr Gln Lys Gly Asn
293            835                 840                 845
295    Ala Met Val Glu Glu Gly His Phe Ala Ala Glu Asp Val Lys Ala Lys
```

RAW SEQUENCE LISTING   DATE: 05/09/2005
PATENT APPLICATION: US/09/613,170   TIME: 16:20:18

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296          850               855               860
298     Leu His Glu Leu Asn Gln Lys Trp Glu Ala Leu Lys Ala Lys Ala Ser
299     865               870          875               880
301     Gln Arg Arg Gln Asp Leu Glu Asp Ser Leu Gln Ala Gln Gln Tyr Phe
302               885               890               895
304     Ala Asp Ala Asn Glu Ala Glu Ser Trp Met Arg Glu Lys Glu Pro Ile
305               900               905               910
307     Val Gly Ser Thr Asp Tyr Gly Lys Asp Glu Asp Ser Ala Glu Ala Leu
308               915               920               925
310     Leu Lys Lys His Glu Ala Leu Met Ser Asp Leu Ser Ala Tyr Gly Ser
311               930               935               940
313     Ser Ile Gln Ala Leu Arg Glu Gln Ala Gln Ser Cys Arg Gln Gln Val
314     945               950               955               960
316     Ala Pro Thr Asp Asp Glu Thr Gly Lys Glu Leu Val Leu Ala Leu Tyr
317               965               970               975
319     Asp Tyr Gln Glu Lys Ser Pro Arg Glu Val Thr Met Lys Lys Gly Asp
320               980               985               990
322     Ile Leu Thr Leu Leu Asn Ser Thr Asn Lys Asp Trp Trp Lys Val Glu
323               995               1000              1005
325     Val Asn Asp Arg Gln Gly Phe Val Pro Ala Ala Tyr Val Lys Lys Leu
326          1010              1015              1020
328     Asp Pro Ala Gln Ser Ala Ser Arg Glu Asn Leu Leu Glu Glu Gln Gly
329     1025              1030              1035              1040
331     Ser Ile Ala Leu Arg Gln Glu Gln Ile Asp Asn Gln Thr Arg Ile Thr
332               1045              1050              1055
334     Lys Glu Ala Gly Ser Val Ser Leu Arg Met Lys Gln Val Glu Glu Leu
335               1060              1065              1070
337     Tyr His Ser Leu Leu Glu Leu Gly Glu Lys Arg Lys Gly Met Leu Glu
338               1075              1080              1085
340     Lys Ser Cys Lys Lys Phe Met Leu Phe Arg Glu Ala Asn Glu Leu Gln
341          1090              1095              1100
343     Gln Trp Ile Asn Glu Lys Glu Ala Ala Leu Thr Ser Glu Glu Val Gly
344     1105              1110              1115              1120
346     Ala Asp Leu Glu Gln Val Glu Val Leu Gln Lys Lys Phe Asp Asp Phe
347               1125              1130              1135
349     Gln Lys Asp Leu Lys Ala Asn Glu Ser Arg Leu Lys Asp Ile Asn Lys
350               1140              1145              1150
352     Val Ala Glu Asp Leu Glu Ser Glu Gly Leu Met Ala Glu Glu Val Gln
353          1155              1160              1165
355     Ala Val Gln Gln Gln Glu Val Tyr Gly Met Met Pro Arg Asp Glu Thr
356          1170              1175              1180
358     Asp Ser Lys Thr Ala Ser Pro Trp Lys Ser Ala Arg Leu Met Val His
359     1185              1190              1195              1200
```

362 (2) INFORMATION FOR SEQ ID NO: 6:
364   (i) SEQUENCE CHARACTERISTICS:
365   (A) LENGTH: 1151 amino acids
366   (B) TYPE: amino acid
367   (C) STRANDEDNESS: Not Relevant
368   (D) TOPOLOGY: linear

VERIFICATION SUMMARY   DATE: 05/09/2005
PATENT APPLICATION: **US/09/613,170**   TIME: 16:20:19

Input Set : **N:\Crf3\RULE60\09613170.raw**
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L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]